

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

1. (currently amended) A method for starting an internal combustion engine with electrically~~mechanically~~ actuated valves, the method comprising:  
~~processing a signal indicative of engine position;~~  
~~after processing said signal, setting an intake~~  
identifying stroke on a cylinder with sufficient piston downward movement to produce an engine output; and  
setting intake and exhaust~~positioning~~ valve timing so that  
said cylinder is in an~~based on said set~~ intake stroke.
2. (original) The method of Claim 1 wherein said cylinder is a first available cylinder with sufficient piston downward movement to produce an engine output.
3. (original) The method of Claim 1 wherein said engine output is a desired engine torque.
4. (original) The method of Claim 1 wherein said engine output is a desired cylinder air amount.
5. (original) The method of Claim 1 wherein said engine output is a desired engine speed.

6. (currently amended) A method for starting an internal combustion engine with ~~electrically~~mechanically actuated valves, the method comprising:  
~~processing a signal indicative of engine position,~~  
~~setting a stroke of a cylinder during a start,~~  
identifying at least a piston position and direction of travel in at least a cylinder of said engine; and based on piston position and direction of piston travel, and setting intake and exhaust~~positioning~~ valves so that said at least a cylinder is in a desired~~timing of said cylinder based on said set~~ stroke.
7. (currently amended) The method of Claim 6 wherein said setting intake and exhaust valves is ~~setting a stroke of a cylinder is~~ further based on engine speed.
8. (currently amended) The method of Claim 6 wherein said setting intake and exhaust valves is ~~a stroke of a cylinder is~~ further based on barometric pressure.
9. (currently amended) The method of Claim 6 wherein said desired stroke of a cylinder is an intake stroke.
10. (currently amended) The method of Claim 6 wherein said desired stroke of a cylinder is an exhaust stroke.
11. (currently amended) The method of Claim 6 wherein said desired stroke of a cylinder is a compression stroke.
12. (currently amended) The method of Claim 6 wherein said desired stroke of a cylinder is a power stroke.

13. (currently amended) A method for starting an internal combustion engine with electrically~~mechanically~~ actuated valves, the method comprising:  
    ~~processing a signal indicative of engine position;~~  
    ~~after processing said signal setting an~~  
    ~~compression stroke~~ enduring a start, identifying a  
    cylinder sufficient piston upward movement to produce an engine output; and  
    setting intake and exhaust positioning valves timing so that said cylinder is in a based-on said set ~~compression stroke.~~
14. (currently amended) The method of Claim 13 wherein said ~~cylinder is a first available cylinder with sufficient piston downward movement to produce an engine output~~ setting intake and exhaust valves is further based on engine speed.
15. (original) The method of Claim 13 wherein said engine output is a desired engine torque.
16. (original) The method of Claim 13 wherein said engine output is a desired cylinder air amount.
17. (original) The method of Claim 13 wherein said engine output is a desired engine speed.
18. (currently amended) A method for starting an internal combustion engine with electrically~~mechanically~~ actuated valves, the method comprising:  
    determining position of said engine;

determining a desired cylinder air amount based on at least an operating condition of said engine; and adjusting valve timing of a cylinder based on said engine position and said desired cylinder air amount.

19. (original) The method of Claim 18 wherein said at least an operating condition of said engine is a temperature of said engine.
20. (original) The method of Claim 18 wherein said at least an operating condition of said engine is a temperature of ambient air.
21. (original) The method of Claim 18 wherein said at least an operating condition of said engine is a desired engine torque amount.
22. (original) The method of Claim 18 said adjusting valve timing includes setting the stroke of said cylinder.
23. (currently amended) A computer readable storage medium having stored data representing instructions executable by a computer to control an internal combustion engine of a vehicle, said storage medium comprising:
  - ~~instructions for processing a signal indicative of engine position;~~
  - instructions for ~~setting an intake stroke on~~ identifying a cylinder ~~with~~ sufficient piston downward movement to produce an engine output ~~after processing said signal;~~
  - instructions for ~~positioning valve timing based~~

~~on said set~~ setting intake and exhaust valve timing so  
that said cylinder is in an intake stroke; and  
instructions for performing a first combustion  
event in said cylinder with said set intake stroke.

24. (new) The method of Claim 1 wherein said electrically actuated valve is an electromechanically actuated valve.
25. (new) The method of Claim 6 wherein said electrically actuated valve is an electromechanically actuated valve.
26. (new) The method of Claim 13 wherein said electrically actuated valve is an electromechanically actuated valve.
27. (new) The method of Claim 18 wherein said electrically actuated valve is an electromechanically actuated valve.
28. (new) The method of Claim 6 wherein said piston position is based on a determined crankshaft position.
29. (new) The method of Claim 6 wherein said piston direction of travel is away from a cylinder head.
30. (new) The method of Claim 6 wherein said piston direction of travel is toward a cylinder head.